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(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number:

02216472 A

(43) Date of publication of application: 29.08.1980

(51) Int. Cl.

G01R 31/00

G01R 31/26, H03K 17/00

(21) Application number:

63286773

(22) Date of filing:

15.11.1988

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(54) ELEMENT FAULT DETECTING DEVICE OF AC POWER CONTROLLER

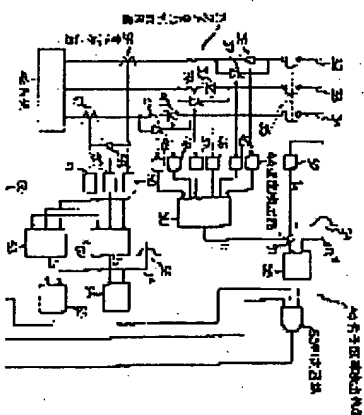
(57) Abstract:

PURPOSE: To quickly execute a protecting operation and to detect even a short circuit of a single phase by deciding it to be a fault, when a temperature of a case of a switching element becomes lower than a prescribed temperature rise.

CONSTITUTION: Temperatures of cases of thyristors 36 - 41 are detected by temperature detectors 44 - 49, respectively, and that of the minimum value among them is selected by a temperature minimum value selecting circuit 50 and outputted as a temperature minimum value signal Tc. This signal Tc is compared with an ambient temperature value signal Ta by a sub-

the comparator 53 decides it by an AND circuit 55 by outputting a signal of a high level and outputs a fault detecting signal S₀ from an OR circuit 70.

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